

217/782-2113

JOINT CONSTRUCTION AND OPERATING PERMIT

PERMITTEE

Evanston Hospital
Attn: Emma F. Hooks
2620 Ridge Avenue
Evanston, Illinois 60201

Application No.: 04090055

I.D. No.: 031081AEV

Applicant's Designation: BOILERMOD

Date Received: September 17, 2004

Subject: Boiler #5 Alterations

Date Issued: September 28, 2004

Expiration Date: September 27, 2005

Location: 2620 Ridge Avenue, Evanston

Permit is hereby granted to the above-designated Permittee to CONSTRUCT and OPERATE emission source(s) and/or air pollution control equipment consisting of one natural-gas-fired boiler (decommissioning HMIWI while adding a new natural gas-fired burner on the HMIWI waste heat boiler) as described in the above-referenced application. This Permit is subject to standard conditions attached hereto and the following special condition(s):

1. This Permit authorizes alterations to the existing waste heat boiler, i.e., installation of natural gas burners, to facilitate the decommissioning of the existing Hazardous Medical Infectious Waste Incinerator (HMIWI) converting the waste heat boiler to a conventional boiler.
- 2a. Boiler #5 is subject to the New Source Performance Standard (NSPS) for Small Industrial-Commercial-Institutional Steam Generating Units, 40 CFR 60, Subpart A and Dc. The Illinois EPA is administering the NSPS in Illinois on behalf of the United States EPA under a delegation agreement.
- b. The Permittee shall fulfill applicable notification and recordkeeping requirements, pursuant to 40 CFR 60.7 and 40 CFR 60.48c.
- c. At all times, the Permittee shall maintain and operate the boiler, including associated air pollution control equipment, in a manner consistent with good air pollution control practice for minimizing emissions, pursuant to 40 CFR 60.11(d).

Note: The boiler is not subject to any emissions limits under the NSPS because it only uses natural gas.

3. Natural gas shall be the only fuel fired in boiler #5.
4. Emissions and operation from boiler #5 shall not exceed the following limits:

| E M I S S I O N S | | | | |
|-------------------|-----------|-------------|-----------------|-------------|
| Firing Rate | Nitrogen | Oxides | Carbon Monoxide | |
| (mmBtu/Hour) | (Lb/Hour) | (Tons/Year) | (Lb/Hour) | (Tons/Year) |
| 10.5 | 1.05 | 4.60 | 0.88 | 3.86 |

| E M I S S I O N S | | | |
|--------------------|--------------------|---------------------------|--------------------|
| Particulate Matter | | Volatile Organic Material | |
| <u>(Lb/Hour)</u> | <u>(Tons/Year)</u> | <u>(Lb/Hour)</u> | <u>(Tons/Year)</u> |
| 0.08 | 0.35 | 0.06 | 0.25 |

These limits are based on standard emission factors (USEPA's Compilation of Air Pollutant Emission Factors, AP-42, Section 1.4) and maximum natural gas usage at continuous operation. Compliance with annual limits shall be determined from a running total of 12 months of data.

- 5a. The Permittee shall keep a copy of the supplier's specifications for the new natural gas burner.
- b. The Permittee shall keep operating and maintenance logs for Boiler #5.
- c. The Permittee shall maintain monthly records of the natural gas usage of the source (scf/month and scf/year).
6. All records and logs required by this permit shall be retained at a readily accessible location at the source for at least three years from the date of entry and shall be made available for inspection and copying by the Illinois EPA upon request. Any records retained in an electronic format (e.g., computer) shall be capable of being retrieved and printed on paper during normal source office hours so as to be able to respond to the Illinois EPA request for records during the course of a source inspection.
7. The Permittee shall promptly notify the Illinois EPA when the HMIWI is decommissioned.
8. If there is an exceedance of the requirements of this permit as determined by the records required by this permit, the Permittee shall submit a report to the Illinois EPA's Compliance Section in Springfield, Illinois within 30 days after the exceedance. The report shall include the emissions released in accordance with the recordkeeping requirements, a copy of the relevant records, and a description of the exceedance or violation and efforts to reduce emissions and future occurrences.
9. Two copies of required reports and notifications concerning Boiler #5 shall be sent to:

Illinois Environmental Protection Agency
Division of Air Pollution Control
Compliance Section (#40)
P.O. Box 19276
Springfield, Illinois 62794-9276

and one copy shall be sent to the Illinois EPA's regional office at the following address unless otherwise indicated:

Illinois Environmental Protection Agency
Division of Air Pollution Control
9511 West Harrison Street
Des Plaines, Illinois 60016

Please note that based on information in the application, when the HMIWI is decommissioned, this source will no longer be subject to the requirements of Section 39.5 of the Act. At such time, the Permittee may apply for a lifetime operating permit, in conjunction with the withdrawal of the source's CAAPP Permit, No. 00090040.

If you have any questions on this permit, please call John Blazis at 217/782-2113.

Donald E. Sutton, P.E.
Manager, Permit Section
Division of Air Pollution Control

DES:JPB:psj

cc: Region 1